

INFORMATION REPORT

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COUNTRY Germany (Russian Zone)

CONFIDENTIAL

DATE DISTR. 13 APR 50

SUBJECT Tube Research at the Oberspreewerk

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PLACE
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DATE OF INFO. 25X1A

SUPPLEMENT TO
REPORT NO.

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1. The Oberspreewerk is carrying out experiments aimed at increasing the life span of mercury high-pressure tubes to at least 100 hours and at achieving a color improvement. These experiments concern primarily the OSU Type 2452 (12,000 Ksb) and OSU Type 2525 (35,000 Ksb) tubes. The improvement is to be accomplished by the addition of cadmium-zinc. Red content is eight percent.
2. In addition, a high-pressure mercury tube of small capacity is being developed. It is to be used for microscopy, reading devices, and movie projectors. Data of this tube are as follows:

Diameter of bulb	10 mm
Length	45-50 cm
Voltage	30-50 volt
Distance of electrodes	1-1.5 mm
Light density	20,000 sb
Light current	1750 lumen/W
Life span	about 100 hours
Ignition	without any aids
Power input	50 watt

The problems of life span and self-ignition could not be worked out satisfactorily as yet.

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